AWS V4 Logictivity

Installation Guide

This booklet contains practical information for the safe installation of this apparatus. For operational information please refer to the User Guide.

AWS. This is SSL.

Solid State Logic

Contents

- 1. Exchanging the Monitor PROM
- 2. Enabling the AWS Logictivity features on your console
- 3. Install the latest AWS900 or AWS900+ software
- 4. Install the ipMIDI driver and Logictivity browser
- 5. Software Installation (Macintosh)
- 6. Software Installation (PC)
- 7. Make and configure the network connection
- 8. Direct Network Configuration (Macintosh)
- 9. Direct Network Configuration (PC)
- 10. Enabling ipMIDI on your AWS
- 11. Finding the console using the AWS Remote application
- 12. Setting your workstation(s) to communicate via ipMIDI
- 13. Network troubleshooting
- 14. Larger Networks
- 15. Assigning the AWS900+ IP Address
- 16. SSL Logictivity Badge
- 17. Licence

Safety Considerations

This page contains definitions, warnings, and practical information to ensure a safe working environment. Please take time to read this section before installing or using this unit. Please do not dispose of these instructions.

General Safety

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Do not expose this apparatus to rain or moisture.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
- Adjustments or alterations to this apparatus may affect the performance such that safety and/or international compliance standards may no longer be met.
- This apparatus is equipped with a headphone socket excessive sound pressure from earphones and headphones can cause hearing loss.

Caution

- Hazardous voltages may be present inside this apparatus.
- Do not operate this apparatus with the covers removed.
- To reduce the risk of electric shock, do not perform any servicing other than that contained in these Installation Instructions unless you are qualified to do so. Refer all servicing to qualified service personnel and ensure that all power cords are disconnected when servicing this apparatus.

Power Safety

- Multiple power cords may be supplied with this unit use only the power cord appropriate to your local power wiring. Alternative power cords may be used if rated 2.5A or above and fitted with a 3-pin IEC320 connector.
- An external over-current protection device is required to protect the wiring to this apparatus. This protection device must be installed according to current wiring regulations. In certain countries this function is supplied by use of a fused plug.
- If an extension power cable or adaptor is used, ensure that the total power rating of the power cable and/or adaptor is not exceeded.
- An external disconnect device is required for this apparatus. The appliance coupler is a suitable disconnect device. The appliance coupler shall remain readily operable.
- The power socket used for this apparatus should be located nearby and be easily accessible.
- Unplug this apparatus during an electrical storm or when unused for long periods of time.
- All power cords must be disconnected to isolate this apparatus completely.

Un-pack

There are two variants of the V4 Logictivity upgrade kit. One for the original AWS900 Classic Console and one for the AWS900+ Console. Depending on the model of console your V4 Logictivity Upgrade box should contain the following:

AWS900 Classic V4 Logictivity Upgrade Kit - SSL Pt No 70930SE3

off PLCC Removal Tool
 off Programmed Monitor PROM
 off V4 Software Licence Serial No
 off Logictivity Licence Serial No
 off Console SSL Logictivity Badge
 off Upgrade Instructions — this document

AWS900+ V4 Logictivity Upgrade Kit - SSL Pt No 70930SE4

off V4 Software Licence Serial No
 off Logictivity Licence Serial No
 off Console SSL Logictivity Badge
 off Upgrade Instructions — this document

To see the images shown in this booklet in full colour please visit the AWS Documention section of our website:

http://www.solidstatelogic.com/support/consoles/aws/documentation.asp

Introduction

Thank you for purchasing the AWS V4 Logictivity upgrade for your AWS console. After installation your system will benefit from the full range of AWS900+ SE V4 features. These include:

Logictivity browser allowing renaming of scribble strips, external sources, mixes, and TR setups as well as providing fast, reliable archiving and restoration of automation and TR setups over Ethernet.

Two switchable workstation layers with transport lock.

A-FADA mode where motorised analogue faders follow DAW Automation data.

Total Recall Autoscan and Autodetect.

MIDI over Ethernet driver (ipMIDI). This driver eliminates the need for a remote MIDI interface between your AWS console and workstation.

AUTO CUE option for talkback, listen mic and red light switch.

Monitor volume control calibration for film mixing and fine gain control options.

Solo boost and Solo isolate.

Seperate EFX and CHOP selection allows channel output to be sourced pre-fader while the EFX system feeds the track busses to generate stereo headphone mixes.

Single layer DAW mode allows two DAWs to be configured on the same layer, giving parallel access to both machines.

IMPORTANT - PLEASE READ CAREFULLY

Before attempting the upgrade, please read these instructions in full to ensure that you have sufficient time, technical skills and the required crossover RJ45 network cable to complete the upgrade. If you would prefer an SSL technician to complete the upgrade, please contact your local SSL distributor or office.

1. Exchanging the Monitor PROM

The exchange of the CPU card's Monitor PROM is only necessary on AWS 900 Classic consoles. The Monitor PROM on the AWS 900+ CPU already incorporates AWS Logictivity support.



The instructions on exchanging the Monitor PROM are intended for technically competent personnel. To reduce the risk of electric shock do not perform the upgrade unless you are competent to do so. If you would prefer an SSL technician to complete the upgrade, please contact your local SSL distributor or office.



Disconnect the power cord before removing any panels or modules.



Take basic antistatic precautions. Electrostatic discharge (ESD) can damage electronic components, even if you cannot feel, see, or hear it.

Please note that the console will not boot fully after the new Monitor PROM is installed. However, the console's processor will boot into a basic download mode allowing the new SE Logictivity software to be transferred.

- 1) Grasp an exposed metal part of the AWS chassis with your bare hand to discharge any static charge you may have accumulated.
- 2) Unplug the mains power cord at the rear of the console. Wait 10 seconds to allow any residual charge in the console's electronics to decay.
- 3) Working from the rear, using the Pozidrive screw driver supplied with the console, remove the four screws securing the top trim. Remove the top trim.

4) Using the Pozidrive screwdriver, remove the four screws securing meter panel 17-24 in position. Tilt the panel forward slightly and lift the panel out of its slot. Lay the panel onto channels 17-24. It is not necessary to unplug any of the meter panel's connections.



5) On consoles shipped prior to the 3rd November 2005 (serial numbers AWS001 – 144 approximately) a screening plate covered the AWS900's CPU card. Remove this screening plate taking care not to drop any screws into the console.

6) The AWS900's CPU card will now be visible. With the help of the picture below locate the card's Monitor PROM in PCB location CD.





7) Using the supplied PLCC IC puller, remove the existing PROM. Squeeze the tool to align its hooks with the slots in opposite corners of the socket. Insert the hooks fully, squeeze gently, and pull the IC straight out of the socket.







8) Note the key (angled corner) on the replacement Monitor PROM. Align the replacement PROM to match the key on the socket. Carefully ensure correct orientation of the IC then press in place. Excessive force should not be necessary.





- 9) Follow steps 3, 4 and 5 in reverse to reassemble the console.
- 10) Reconnect the mains power cord on switch on. The processor will now be in a download mode waiting for the AWS900 V4 software to be transferred via MIDI. The console will not boot fully until the new software is installed.

2. Enabling the AWS V4 Logictivity features on your console

- 1) Your update kit contains two licence strings, one for Logictivity and one for V4 software, both licences must be registered before downloading software.
- 2) Find the console's serial number. The serial number label is located on the rear of the console adjacent to the mains power inlet connector. The serial number starts with the letters AWS followed by a three digit number. Make a note of the number for the registration process (e.g. if the serial number is AWS293, note 293).
- 3) If you have not registered your console on-line (or you have forgotten your username), complete the on-line registration:

http://update.solid-state-logic.com/update/public/newuser.jsp

4) Navigate to the on-line update page:

http://update.solid-state-logic.com/update/public/

Select the 'Activate logictivity' option. Enter your login details and when prompted, enter your Logictivity activation code and the numerical element of your console's serial number previously noted.

5) Return to the on-line update page, select the 'Activate V4' option. When prompted, enter your V4 activation code and the numerical element of your console's serial number previously noted.

Note: The activation code can only be used once. Please ensure that you enter the correct serial number.

3. Installing the V4 software update

 After successfully activating both licences follow the link below and download the software .jar file, the release notes and either the Macintosh or Windows support files, as required. The software is packaged as a 3MB (approximately) Java archive file. The file format is compatible with both PC and Macintosh (OS X only) platforms.

http://update.solid-state-logic.com/update/public/downloadrelease.jsp

2) Check that your host computer has the correct version of Java installed.

PC users: Ensure that you have the latest version of Java installed (this can be downloaded from http://www.java.com).

Mac users: Java is included with OSX. Run your OSX Software Update to ensure that Java version 5 or above is installed on your Mac. You will also need a Java Library Extension which can be downloaded from http://www.mandolane.co.uk.

For Intel based Mac download Mandolane MIDI SPI. Open the downloaded zip file and drag the libMandoMidiJNILib.jar and libMandoMidiJNILib.jnilib files to your /Library/Java/Extensions folder.

Please note that Mandolane make a small charge for the library extension.

For Power PC based machines download Plumstone. Open the downloaded zip file and drag the plumstoneserv.jar file to your /Library/Java/Extensions folder.

You may be warned that the file cannot be moved because extensions cannot be modified. In this case click on "Authenticate" and enter your Mac OSX admin password.

3) Ensure that your AWS is powered and connected to the MIDI port on your workstation. Close all current applications on your workstation.

- 4) Double click on the AWS Software Update file. You should see the SSL AWS Software Update window appear.
- 5) Go to the In MIDI Port menu. From the drop down list, select the MIDI IN port which is connected to MIDI port 1 on your AWS console. In the example shown below this was port 1 on an 8 port interface. If the list is empty, check that you have installed the files detailed in step 2.

✓ Port 1 (MidiIN:0) (Midi IN port:0)
Port 2 (MidiIN:1) (Midi IN port:1)
Port 3 (MidilN:2) (Midi IN port:2)
Port 4 (MidiIN:3) (Midi IN port:3)
Port 5 (MidiIN:4) (Midi IN port:4)
Port 6 (MidilN:5) (Midi IN port:5)
Port 7 (MidiIN:6) (Midi IN port:6)
Port 8 (MidilN:7) (Midi IN port:7)

6) Go to the Out MIDI Port menu. From the drop down list, select the MIDI out port which is connected to MIDI port 1 on your AWS console.

Port 3 (MidiIN:2) (Midi IN port:2)	
Port 4 (MidiIN:3) (Midi IN port:3)	
Port 5 (MidiIN:4) (Midi IN port:4)	
Port 6 (MidiIN:5) (Midi IN port:5)	
Port 7 (MidiIN:6) (Midi IN port:6)	
Port 8 (MidilN:7) (Midi IN port:7)	
Port 1 (MidiOUT:0) (Midi OUT port:0)	
Port 2 (MidiOUT:1) (Midi OUT port:1)	

Note that some Power PC based Macintosh computers will show all MIDI Inputs at the top of the list, MIDI Outputs at the bottom. You must scroll to the middle of the list to see the MIDI out ports.

7) Click on the 'Test' button. This will transmit a packet of data to the AWS console which then in turn should return an acknowledge packet back to the computer. If the test was successful the message 'Comms test passed, now use send' will be displayed. If the test fails you should check that the correct MIDI port has been selected and repeat the test.

000	Solid State Logic	c – AWS900 Software	Update Utility	
	V	ersion 1.1/6 - SN 12		
	Comms	test passed, now us	e Send	
In Midi Port	Port 1 (MidiIN:0) (Mid	di IN port:0)		;
Out Midi Port	Port 1 (MidiOUT:0) (M	lidi OUT port:0)		;
Progress				
	Test	Send	Save	Exit

8) Once you have established a valid connection click on the 'Send' button. The new code will now be transferred to memory on the CPU card. This process will take approximately 40 minutes due to the slow data transfer rate of MIDI and the error checking of each packet transmitted. A progress bar and transfer counter will be displayed on screen to enable you to observe the transfer progress.

Note: Disable any power management features on your computer which may cause the computer to suspend operation and abort the transfer.

- 9) Once the code has been successfully transferred click on the 'Save' button to store the new software this takes approximately 60 seconds. A progress bar allows you to observe the saving process. During this time it is important that power to AWS is not interrupted. To enable new software to be written into flash memory AWS must first erase the current software. If this process is interrupted by a power failure the AWS will be left with no valid software. In this state AWS will be unable to re-boot. Should this happen the AWS CPU will default to a MIDI download state and you will have to repeat the download process.
- 10) Once the software has been saved a 'Please Re-Power Your Console' message will appear.
- 11) Switch power off, wait 10 seconds, and then reapply power to reboot your console.

4. Support software installation (Macintosh)

AWS Remote

Mount the AWS924-948Remote.dmg disk image and open it. Drag the enclosed AWS Remote application to the Applications folder, then to the Dock or any other convenient location.

ipMIDI

Mount the ipMIDI.dmg disk image and open it. Double click on the ipMIDI.pkg file to run the installation program. Note that you will be asked to log out and in again once you have completed the installation. Once you have logged back in open Audio MIDI Setup and double click on the ipMIDI icon. Set the number of MIDI ports to 12 in the resulting pop-up.

If you are upgrading an older copy of ipMIDI you must uninstall it before running the installer. To uninstall ipMIDI simply delete:

/Library/Audio/MIDI Drivers/ipMIDIDriver.bundle

You should empty the Trash after deleting the .bundle file before running the installer.

System Requirements for your workstation computer:

AWS Remote is a Java application. It will run under Java Version 5 or higher.

ipMIDI is compatible with Macintosh OS X 10.4.x tiger / 10.5.x leopard / 10.6.x snow leopard (universal binary)

5. Support software installation (PC)

AWS Remote

Open the Windows support files package and copy the AWS924-928Remote.exe file to the Program Files folder (or any other convenient location) then create a shortcut to it on your desktop and/or task bar. Double clicking on this will launch the AWS Remote program.

ipMIDI

Run the setupipmidi_1.8.exe application (note that the last part of the name may change depending on the version you are installing) by double clicking on it. Note that you will have to restart the computer at the end of the setup process. Once the computer has restarted right click on the ipMIDI icon in the task bar and set the number of MIDI ports to 12 in the resulting pop-up.

If you are upgrading an older copy of ipMIDI you must uninstall it (using Add/Remove programs) before running the installer.

System Requirements for your workstation computer:

AWS Remote is a Java application. It will run under Java Version 5 or higher.

ipMIDI is compatible with Windows 2000 (maximum 9 MIDI ports), XP and Vista.

6. Make and configure the network connection

The AWS Logictivity software is designed to communicate with your workstation over Ethernet using the ipMIDI driver to emulate a multiport MIDI interface. The ipMIDI driver enables your workstation to send and receive MIDI control data via a network connection. Using Ethernet ensures the fastest possible communication between your workstation computer and AWS. This network connection is essential if you wish to benefit from all of the new SE features. The standard installation uses an RJ45 crossover network cable (not supplied) to connect the console's network connector directly to a separate network port on your workstation computer using the console's default fixed IP address of 192.168.1.2. Note that many computer adaptor cards may autosense a direct connection negating the need for a crossover cable. If you are unsure whether your workstation computer's network adapter has this functionality, please use a crossover rather than a pin to pin cable.



It is possible to connect AWS to a larger network which incorporates multiple computers and to enable dynamic (DHCP) addressing. These configurations need special consideration. Please see the notes at the end of these instructions for details.

7. Direct network configuration (Macintosh)

Please note that currently OS X does not allow two ports to be used for IP traffic. As such, the connection to your main network will not be available while the AWS is connected.

To simplify the process of switching between networks, it is recommended that you create a new network Location for the AWS900 in network preferences. Another Location ('Internet', for example) could be created to enable connection to the internet. This would use the network settings provided by your Internet Service Provider or network administrator. You can easily switch between network Locations by going to the Apple Menu and scrolling down to Location.

Using an RJ45 cable, make a direct network connection between the network port on your AWS to a network port on your workstation computer and check that the IP address is set to FIXED in the console's SSL/MISC/NET menu.

Open System Preferences and click on Network. Create a new location by clicking where it says Location, scroll down to Edit Locations and click the '+' sign. Name the new location AWS900.

Show All	Network	Q
Locat	tion: AWS900	¢
Ethernet 1 Connected Connected Connected Connected Connected Connected	Status:	Connected Ethernet 2 is currently active and has the IP address 192.168.1.3.
Not Connected	IP Address: Subnet Mask: Router: DNS Server: Search Domains:	192.168.1.3 255.255.255.0 192.168.1.2
+ - &-	irther changes.	(Advanced) ? Assist me) Revert Apply

If your Macintosh features multiple network ports, you should set the priority of these so that the Ethernet port connected to your AWS is at the top of the list. To do this, choose Set Service Order from the Actions pop-up menu:



Show All Ethernet 1 Connected Ethernet 2 Connected FireWire Not Connected Drag services to change order. Cancel OK Search Domains:	Show All Cancel Show All Cancel Show All Connected Cancel Cancel Cancel Cancel Cancel Canced Canced Canced Canced Canced Canced Canced Canced Canced Canced Canced Canced Canced Canced Canced Canced Canced Canced Canced Canced Canced Canced Canced	00	Network	
Ethernet 1 Connected Ethernet 2 Ethernet 2 Ethernet 1 FireWire FireWire Not Connected Drag services to change order. Cancel OK Search Domains:	Ethernet 1 Connected Ethernet 2 Connected FireWire Not Connected Drag services to change order. Cancel OK Search Domains:	Show All		٩
	+ - &+	 Ethernet 1 Cennected Ethernet 2 Connected FireWire Not Connected 	Location: AWS900 Service Order: Ethernet 2 Ethernet 1 FireWire Drag services to change order Cancel Search Domains:	e and has the IP
Click the lock to prevent further changes. Assist me Revert Apply		then Apply		

remaining.

8. Direct network configuration (PC)

Double click on Network Connections in Start/Control Panel. Right click on the network adapter connected to your AWS (likely to be called "Local Area Connection"). Select Properties.

🗕 Local Area Connection 4 Pro 🕐 🔀
General Advanced
Connect using:
Cisco Systems VPN Adapter Configure
This connection uses the following tems:
Retwork Monitor Driver
AEGIS Protocol (IEEE 802.1x) v3.1.0.1
Internet Protocol (TCP/IP)
Instal Uninstal Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
Show icon in notification area when connected Notify me when this connection has limited or no connectivity
OK Cancel

Select Internet Protocol (TCP/IP) and Properties.

Next, configure the adapter as shown below:

nternet Protocol (T General	CP/IP) Properties ?
You can get IP settings assigned a this capability. Otherwise, you nee the appropriate IP settings.	automatically if your network supports d to ask your network administrator for
Obtain an IP address automa	atically
• Use the following IP address	:
IP address:	192.168.1.3
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192 . 168 . 1 . 2
Obtain DNS server address a	eutomatically
OUse the following DNS serve	er addresses:
Preferred DNS server:	
Alternate DNS server:	· · ·
	Advanced
	OK Cancel

Click on OK on both windows to save. Back in your network connection list, right click on your adaptor and ensure that it is enabled. If it is disabled, the enable option will appear in the list. Click on enable.

9. Enabling ipMIDI on your AWS

In the SSL/MISC/SETUP menu, toggle the 'MIDI Connects Via' setting to 'Network'. Your console will now communicate with your workstation via Ethernet. With 'MIDI Connects Via' set to 'MIDI Ports', AWS will communicate with your workstation via the conventional MIDI connectors on the rear of your console.

Also in the SSL/MISC/SETUP menu, ensure that the 'DAW1' option (workstation layer 1) and DAW2 (workstation layer 2) are set to match your workstation or workstations if you are using the second layer. Please note that you may need to restart the console after making a change to the DAW layer options.

10. Finding the console using the AWS Remote application

Launch AWS Remote on your workstation. If you only have one AWS console on the network, AWS Remote will automatically locate the console and the message 'AWS 900 Connected' will be shown in green text in the bottom left hand corner of the browser:



If you have multiple AWS consoles on the network or the AWS Remote browser did not automatically locate your console 'No AWS 900 connected' will be shown in red text. In this instance, click on the find icon

If the list is empty, click on find AWS900, select the console you wish to connect to and click on select.

Find AWS 90	00 X
Select desk, then click o	Find AWS 900
AWS900+ SN 9314	
	Cancel Select

If your console does not appear in the list, it suggests you have a network related issue. Please follow the steps in the network trouble shooting section at the end of this document to resolve the issue.

11. Setting you workstation(s) to communicate via ipMIDI

Port	Layer	Assignment	Port	Layer	Assignment
1	1	Faders 1-8	9	-	AWS MIDI port 1
2	1	Faders 9-16	10	-	AWS MIDI port 2
3	1	Faders 17-24	11	-	-
4	2	Faders 1-8	12	-	-
5	2	Faders 9-16	13	-	-
6	2	Faders 17-24	14	-	-
7	-	MTC Input	15	-	-
8	-	SysEx	16	-	-

The AWS Logictivity software enables 12 MIDI ports which are pre-assigned as follows:

Note that there are now two switchable workstation layers allowing two independent workstations to be interfaced. Once configured, you can switch between the two layers using the console's SSL/DAW menu.

Port 7: If your console has AWSomation, this port is used for MIDI Time Code (MTC).

Port 8: Used for the import and export of legacy SysEx TR and AWSomation data.

Port 9-10: Mapped to the conventional MIDI connectors on the rear of the console.

NOTE: In addition to ipMIDI port 7, hardware MIDI port 4 on the rear of the console is also hard coded as an MTC input. To avoid contention, only use one of these two MTC ports at any one time.

To enable control of your workstation via HUI or MCU your workstation(s) must be configured to match the appropriate layer in the list above. This is done using the MIDI Controller configuration page of your workstation. Below are two examples using Pro Tools 9 and Logic Pro 9:

Pro Tools 9

In the Setup menu, click on Peripherals and select the MIDI Controllers tab. Using MIDI controllers 1, 2 and 3, select HUI as the MIDI controller Type and assign the MIDI ports for this layer's DAW to the two MIDI controllers, as listed in the table above. If Pro Tools has been assigned to Layer 1, the MIDI Controllers window should look like this:



		Peripher	als		
Synchronization	Machine Control	MIDI Controllers	Ethernet Controllers	Mic Preamps	Satellite
MTC F	Reader And Generato	r			
	MTC Reader Po	ort: Any	\$		
	MTC Generator Po	ort: ipMIDI, Port 7	\$		
Digide	esign Synchronization	n Device			_
Er	able SYNC Periphera	1	Current Firmware Ve	rsion:	
Βv	ITC Insertion Enabled	LTC O	itput Level:		
🗆 Pi	tch Memory Enabled	VITC	Read Lines:	\$	
	lle MTC Enabled	VITC Gen	erate Lines:		
		Bi-Phase/T	ach Wiring:	‡	
	Bi-Phase/Tach Pu	Ilses/Frame	2 Reset I	Bi-Phase	
6	Enable Dub Windov	v			
	Vertical Positio	n: \$	Size:	\$	
	Horizontal Positio	n: \$	Color:	\$	

	Peripherals
Synchronization	Machine Control MIDI Controllers Ethernet Controllers Mic Pr
MIDI M	achine Control (Master) ID
🗹 Ena	ole ipMIDI, Port 7 💠 127 Preroll: 90 frames
MIDI M	achine Control Remote (Slave)
	ID
📋 Ena	sie 127
9-Pin M	fachine Control (Deck Control) Port Machine Type
🗌 Ena	ole None + Preroll: 150 frame
	Use Serial Time Code For Positional Reference
	(Serial Time Code Requires SYNC With Video Clock Reference)
9-Pin F	emote (Deck Emulation)
	Port Machine Type
📃 Ena	ole None 🗘 BVW-75 🗘 Chase LTC
	Cancel

Logic Pro 9

When Logic is assigned to one of the two AWS workstation layers a Mackie Control together with a Mackie Control Extender must be added to the Logic Pro Preferences/Control Surfaces Setup menu.

AWS Faders 1-8 are mapped to the Mackie Control ports along with the Master Fader and workstation Control function switches. AWS Faders 9-16 and 17-24 are mapped to the Mackie Control Extender ports. The actual ipMIDI ports used will depend on which layer (or layers) Logic is assigned to. See the list of AWS MIDI port assignments for details. It is essential that the layout shown is followed. If the physical arrangement is reversed, then the AWS faders will not map correctly to the on-screen faders in Logic.

If Logic is the only DAW connected to AWS, then provided that there is only one DAW layer set up with an MCU configuration, Logic should automatically detect the three virtual controllers which will be shown in the Logic Setup menu (as shown in fig 11.1 opposite), with the appropriate AWS ipMIDI ports assigned. If Logic fails to detect the control surfaces, then the controllers can be added manually via the New/Install menu and the appropriate MIDI Out port and Input assigned. Full details can be found in the online Logic Pro Control Surfaces Support guide in the Logic Help Menu.

If AWS is set up with two MCU layers, then the automatic detection option must be disabled and the controllers added and configured manually. Check the Disable Handshake option in SSL/MISC/SETUP is set to yes. This will prevent Logic automatically detecting multiple Mackie Control Units.

Note: Logic's Click and Ports environment layer selects the SUM of all of the ipMIDI input ports as its default MCU control data source. This may lead to difficulties when using multiple DAW layers. To avoid Logic responding to MIDI messages intended for the other DAW layer, the Click and Port MIDI port mapping should be changed from SUM to individual direct MIDI port assignment. The example in fig 11.2 shows Logic on DAW layer 1.

Fig 11.1 Logic control surface setup menu





If you have AWSomation, set the MMC midi port in File/Project Settings/Synchronisation/MIDI to ipMIDI port 7:
💿 🔿 🗎 gearbox b No Duende Plugs - Project Settings
Synchronization Recording Tuning Audio MIDI Score Video Assets
General Audio MIDI Unitor
MIDI Clock
Transmit MIDI Clock: Destination 1
Destination 2
Delay transmission by:
MIDI Time Code (MTC)
ipMIDI Port 7
MIDI Machine Control (MMC)
Transmit MMC
(MIDI Sync Preferences)

For other DAWs, please refer to the program's manual for details about configuring MIDI controllers.

To find out about the new V4 features and their operation download the Owner's guide from our website. This document will help ensure that you get the most from the upgrade:

http://www.solidstatelogic.com/support/consoles/aws/documentation.asp

13. Network troubleshooting

Most Ethernet adaptor cards have two LEDs associated with each port. The first indicates that the link is connected and the second indicates network traffic. Please note that some Macintosh computers do not have external LEDs to indicate status. Instead the link status is shown in the System Preferences/Network menu.

On your host workstation computer, confirm that the link LED is permanently illuminated. If it is not permanently illuminated, it suggests you have a cabling error. In this instance please check the following:

- The RJ45 network connector on the console and on your workstation are fully inserted
- If you are using a pin to pin cable to make a direct connection between your console and workstation, try replacing your cable with an RJ45 crossover cable
- Try replacing the network cable
- If you are not using a direct connection between your console and workstation using the default fixed IP address on the console, please try this simple configuration to rule out issues with external routers and network switches
- If the link LED is illuminated, the next step is to confirm that the activity LED is illuminating periodically to show network traffic. If it does not illuminate periodically check the following:
- If your workstation is not connected directly to your console using a crossover RJ45 cable and fixed IP addressing, follow the installation instructions for a simple network configuration to rule out issues with any external routers or network switches.

• Using the fixed default IP address on the console, check that the workstation has basic communications using 'ping'.

On Windows: Select Run under the Start menu. In the resulting window enter cmd to launch the command prompt. In the command prompt window enter ping 192.168.1.2

On OSX: Open a Finder window, select Applications, then Utilities, and double-click on Terminal. In the terminal window enter ping –c4 192.168.1.2

In both cases your host computer will try to establish communications with your console. In the resultant terminal text, check that the console responded to every message sent by your workstation.

14. Larger networks

To ensure minimum latency the ipMIDI driver uses multicast UDP rather than TCP/IP. This means that:

- The network connection should be as short as possible and should only use routers that can support high data transfer rates. Problems have been experienced with some domestic routers, particularly when used with Pro Tools.
- Messages between the DAW computer and the AWS900+ will be received by all other devices on the network, potentially causing problems in installations with more than one console or DAW computer. The UDP packets can be blocked by using a network switch which allows static multicast groups to be specified. The Netgear GS108T 16 port switch is a cost effective solution which can easily be configured to allow ipMIDI traffic only to specified ports.



Configure the switch in the static multicast groups page to forward packets with a multicast mac address of o1-00-5E- 00-00-25 to only the ports which the AWS900+ and the DAW computer are connected to. For the Netgear GS108T, the configuration looks like this:

Static M	lulticast Groups				
MAC Addre	995:				
Format_01-60-5E-304-306					
Port 0	01 02 03 04 05 06 07 08				
			Cánchi Refra	ah I	
-			Apply Refre	sh	
- ID	Multicast Entry	Port Members	Apply Refre	sh	

In this configuration, ipMidi data will only be passed to ports 1 and 2. This is where the AWS900+ and the DAW computer would be connected. Network traffic through the rest of the ports is unaffected. If you have more than one console on the network, create a separate VLAN for each console and associated DAW computer(s) to connect to and add those ports to the same multicast group rule.

15. Assigning the AWS IP address

By default, AWS uses a fixed IP address of 192.168.1.2. Dynamic (DHCP) address allocation can be selected via the SSL/NET menu. The currently assigned address is also shown in the SSL/NET menu. If your AWS is connected to the computer via a network switch or router which contains a DHCP server, it should be assigned a DHCP IP address; otherwise the fixed option should be used. Once you have altered the IP mode, you need to restart your AWS for the change to take effect. A software restart option is available in the SSL/SETUP menu.

An alternative fixed IP address can be set using the console diagnostic port. This should not be necessary in most installations. You will need a PC or Mac running terminal emulator software. Connect your computers serial port to the rear of the console using a 9 way 'D' type extension cable. The pin out for the console's 9 way 'D' type serial connector is shown below:

Pin	Description
1	Carrier (Linked to oV)
2	ТХ
3	RX
4	DTR (Linked to DSR)
5	oV
6	DSR (Linked to DTR)
7	RTS (Linked to CTS)
8	CTS (Linked to RTS)
9	RI (Linked to oV)

Set the terminal as follows: Baud rate 19200, 8 data bits, No parity, No start bit, 1 stop bit, Flow control Xon/Xoff Press the 'Return' key (<CR>) and the terminal window should echo a '>' if communication is established. To fix the IP address type the following:

ip **<CR>**

setip nnn nnn nnn <CR> where 'nnn...' is the IP address, e.g. '10 1 1 1 10'.

setmask nnn nnn nnn <CR> where 'nnn...' is the subnet mask, e.g. '255 255 255 o'.

Note that this should match other devices local to the console.

setgate nnn nnn nnn <CR> where 'nnn...' is the gateway address e.g. '10 1 1 1'

16. SSL Logictivity badge

In the upgrade kit you'll find a small badge designed to show your console has been upgraded for Logictivity. Carefully attach this badge to the meter-bridge location illustrated below.



17. Software licence agreement

Software Licence Agreement: Solid State Logic ('SSL') is willing to license this AWS software and accompanying documentation for this product (the 'Software') to the customer (the entity that purchased the product and software) on the condition that you read and accept all of the terms in this agreement. Please read the terms below carefully. By continuing to install the software and using the enclosed information to license the softwareyou acknowledge that you have read and understood the agreement and agree to be bound by its terms and conditions. If you do not agree to these terms then do not open this package, discontinue the installation process and contact your local SSL representative for advice.

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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Instructions for Disposal of WEEE by Users in the European Union



The symbol shown here is on the product or on its packaging, which indicates that this product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collection point for recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or where you purchased the product.

Standards Conformance

This apparatus fully conforms with the current protection requirements of the European community council directives on EMC and LVD.

Limited Warranty

Warranty claims will only be accepted if the purchased product has been used for its intended purpose. Any purchased product used for an unintended purpose will not be eligible for warranty protection. For all warranty inquiries or claims please address your claim to the dealer that you purchased the product from – or to Solid State Logic if the purchase was directly from Solid State Logic – within a period of two months from the date on which you detected its lack of conformity with the terms of the warranty. **Please include your original proof of purchase when initiating the claim**.

- Within the EU: Pursuant to the Solid State Logic Terms and Conditions under European consumer law the purchaser has full statutory warranty rights for two years from the date of delivery of the product. The warranty is valid only in those Member States of the European Union (EU) who have adopted the applicable EU law into their national legislation. The applicable national legislation governing the sale of consumer goods is not affected by this warranty.
- Outside of the EU: Outside of the European Union a 12 month warranty from date of purchase is applicable.

Out of Warranty Repairs

In the event of a fault arising after the warranty period has expired the unit should be returned to Solid State Logic either directly or via your local dealer. You will be charged for the time spent on the repair (at Solid State Logic's current repair rate) plus the cost of parts and shipping. Note that no units can be accepted for repair without prior arrangement (see below).

All Returns

- No unit will be accepted for repair by Solid State Logic unless accompanied by a valid RMA (Return Material Authorisation) number, obtainable from Solid State Logic prior to shipping.
- All units should be shipped to Solid State Logic in suitable rigid packaging Solid State Logic cannot be held responsible for any damage caused by shipping units in other packaging. In such cases Solid State Logic will return the unit in a suitable box, which you will be charged for.
- Do not include the power cable, manual or any other items Solid State Logic can not guarantee to return them to you.



Visit SSL at: www.solidstatelogic.com

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